

CLAIMS

1. A multifunction-type vibration actuator comprising a housing(1), a magnetic circuit part(2) inside said housing(1), a diaphragm(3) arranged facing said magnetic circuit part(2), a voice coil(4) fixed to said diaphragm(3) and inserted into a magnetic gap(2a) of said magnetic circuit part(2), and a suspension(5) for supporting said magnetic circuit part(2), wherein an outer periphery of said diaphragm(3) is fixed to an open end of said housing(1) to cover said housing(1), a portion close to said outer periphery of said diaphragm(3) is bent along an inner periphery(1a) of said housing(1) to form a rising portion(3b) extending toward said open end, an extending surface(3c) extending outward along a flat surface(1b) formed at said open end of said housing(1) from said rising portion(3b) is formed by bending, and said flat surface of said housing(1) and said extending surface of said diaphragm(3) are arranged and bonded so as to be parallel while facing each other.
2. A mobile terminal device incorporating said multifunction-type vibration actuator(A) according to Claim 1, wherein a received call-out signal initiates vibration of one or both mechanical vibration systems including said diaphragm(3), said magnetic circuit part(2) and said suspension(5), vibration of said mechanical vibration systems is transmitted throughout said device through said housing(1), and reset of said call-out signal stops vibration of said diaphragm(3) and said mechanical vibration systems.